AUTHOR INDEX

AKAIKE Norio *see* EBIHARA Satoru & AKAIKE Norio Potassium currents operated by thyrotrophin-releasing hormone in dissociated CA1 pyramidal neurones of rat hippocampus. 689

AL-TIMMAN J.K.A., DRINKHILL M.J. & HAINSWORTH R. Reflex responses to stimulation of mechanoreceptors in the left ventricle and coronary arteries in anaesthetized dogs. 769

ÄMMÄLÄ C., ELIASSON L., BOKVIST K., LARSSON O., ASHCROFT F.M. & RORSMAN P. Exocytosis elicited by action potentials and voltage-clamp calcium currents in individual mouse pancreatic B-cells 665

ANDERSEN S.L.V. *see* CLAUSEN T., ANDERSEN S.L.V. & FLATMAN J.A. Na^+–K^+ pump stimulation elicits recovery of contractility in K^+-paralysed rat muscle. 521

ANDERSON Debra F., BINDER Nancy D. & CLEMONS Gisela K. Mild hypoxaemia does not alter red blood cell production in fetal sheep. 55

ARDIGÒ L.P. *see* MINETTI A.E., ARDIGÒ L.P. & SAIBENE F. Mechanical determinants of gradient walking energetics in man. 725

ARREOLA Jorge, SPIRES Sherrill & BEGENISICH Ted Na^+ channels in cardiac and neuronal cells derived from a mouse embryonal carcinoma cell line. 289

ASHCROFT F.M. *see* ÄMMÄLÄ C., ELIASSON L., BOKVIST K., LARSSON O., ASHCROFT F.M. & RORSMAN P. Exocytosis elicited by action potentials and voltage-clamp calcium currents in individual mouse pancreatic B-cells 665

AUGUSTINE George J. *see* SMITH Stephen J., BUCHANAN JoAnn, OSSES Luis R., CHARLTON Milton P. & AUGUSTINE George J. The spatial distribution of calcium signals in squid presynaptic terminals. 573

BARCLAY C.J., CONSTABLE J.K. & GIBBS C.L. Energetics of fast- and slow-twitch muscles of the mouse. 61

BARRETT Ellen F. *see* DAVID Gavriel, BARRETT John N. & BARRETT Ellen F. Activation of internodal potassium conductance in rat myelinated axons. 177

BARRETT John N. *see* DAVID Gavriel, BARRETT John N. & BARRETT Ellen F. Activation of internodal potassium conductance in rat myelinated axons. 177

BARRIONUEVO German *see* LANGDON Ronald B., JOHNSON Jon W. & BARRIONUEVO German Asynchrony of mossy fibre inputs and excitatory postsynaptic currents in rat hippocampus. 157

BAUER C.J. *see* SMITH G.L., DONOSO P., BAUER C.J. & EISNER D.A. Relationship between intracellular pH and metabolite concentrations during metabolic inhibition in isolated ferret heart. 11

BEGENISICH Ted *see* ARREOLA Jorge, SPIRES Sherrill & BEGENISICH Ted Na^+ channels in cardiac and neuronal cells derived from a mouse embryonal carcinoma cell line. 289

BINDER Nancy D. *see* ANDERSON Debra F., BINDER Nancy D. & CLEMONS Gisela K. Mild hypoxaemia does not alter red blood cell production in fetal sheep. 55

BLEAKMAN David *see* CHARD Paul S., BLEAKMAN David, CHRISTAKOS Sylvia, FULLMER Curtis S. & MILLER Richard J. Calcium buffering properties of calbindin D_{28k} and parvalbumin in rat sensory neurones. 341

BODINE-FOWLER Sue *see* UNGUEZ Graciela A., BODINE-FOWLER Sue, ROY Roland R., PIEROTTI David J. & EDGERTON V. Reggie Evidence of incomplete neural control of motor unit properties in cat tibialis anterior after self-reinnervation. 103

BOKVIST K. *see* ÄMMÄLÄ C., ELIASSON L., BOKVIST K., LARSSON O., ASHCROFT F.M. & RORSMAN P. Exocytosis elicited by action potentials and voltage-clamp calcium currents in individual mouse pancreatic B-cells 665

BOUCHARD R.A., CLARK R.B. & GILES W.R. Role of sodium–calcium exchange in activation of contraction in rat ventricle. 391

BOYETT M.R. *see* KIRBY M.S., MCCALL E., ORCHARD C.H. & BOYETT M.R. The role of Na^+–Ca^{2+} exchange in paired pulse potentiation of ferret ventricular muscle. 415

BROWN D.A. *see* SELYANKO A.A. & BROWN D.A. Effects of membrane potential and muscarine on potassium M-channel kinetics in rat sympathetic neurones. 711

BUCHANAN JoAnn *see* SMITH Stephen J., BUCHANAN JoAnn, OSSES Luis R., CHARLTON Milton P. & AUGUSTINE George J. The spatial distribution of calcium signals in squid presynaptic terminals. 573

CAMMACK J.N. & SCHWARTZ E.A. Ions required for the electrogenic transport of GABA by horizontal cells of the catfish retina. 81

CASTELLANO A. *see* TOLEDO-ARAL J., CASTELLANO A., UREÑA J. & LÓPEZ-BARNEO J. Dual modulation of K^+ currents and cytosolic Ca^{2+} by the peptide TRH and its derivatives in guinea-pig septal neurones. 327

CHARD Paul S., BLEAKMAN David, CHRISTAKOS Sylvia, FULLMER Curtis S. & MILLER Richard J. Calcium buffering properties of calbindin D_{28k} and parvalbumin in rat sensory neurones. 341

CHARLTON Milton P. *see* SMITH Stephen J., BUCHANAN JoAnn, OSSES Luis R., CHARLTON Milton P. & AUGUSTINE George J. The spatial distribution of calcium signals in squid presynaptic terminals. 573

CHERON G. *see* GODAUX E., METTENS P. & CHERON G. Differential effect of injections of kainic acid into the prepositus and the vestibular nuclei of the cat. 459

CHRISTAKOS Sylvia *see* CHARD Paul S., BLEAKMAN David, CHRISTAKOS Sylvia, FULLMER Curtis S. & MILLER Richard J. Calcium buffering properties of calbindin D_{28k} and parvalbumin in rat sensory neurones. 341

CLARK R.B. *see* BOUCHARD R.A., CLARK R.B. & GILES W.R. Role of sodium–calcium exchange in activation of contraction in rat ventricle. 391

CLAUSEN T., ANDERSEN S.L.V. & FLATMAN J.A. Na^+–K^+ pump stimulation elicits recovery of contractility in K^+-paralysed rat muscle. 521

CLEMONS Gisela K. *see* ANDERSON Debra F., BINDER Nancy D. & CLEMONS Gisela K. Mild hypoxaemia does not alter red blood cell production in fetal sheep. 55

COLLINGRIDGE G.L. *see* DAVIES C.H. & COLLINGRIDGE G.L. The physiological regulation of synaptic inhibition by $GABA_B$ autoreceptors in rat hippocampus. 245

CONSTABLE J.K. *see* BARCLAY C.J., CONSTABLE J.K. & GIBBS C.L. Energetics of fast- and slow-twitch muscles of the mouse. 61

DAVID Gavriel, BARRETT John N. & BARRETT Ellen F. Activation of internodal potassium conductance in rat myelinated axons. 177

DAVIES C.H. & COLLINGRIDGE G.L. The physiological regulation of synaptic inhibition by $GABA_B$ autoreceptors in rat hippocampus. 245

DE CORT S.C., INNES J.A. & GUZ A. Effect of positive and negative step changes in intrathoracic pressure on left ventricular function in conscious man. 513

DEMAUREX N. *see* VARNAI P., DEMAUREX N., JACONI M., SCHLEGEL W., LEW D.P. & KRAUSE K.H. Highly co-operative Ca^{2+} activation of intermediate-conductance K^+ channels in granulocytes from a human cell line. 373

DEMPSEY Jerome A. *see* LEEVERS Ann M., SIMON Peggy M., XI Lei & DEMPSEY Jerome A. Apnoea following normocapnic mechanical ventilation in awake mammals: a demonstration of control system inertia. 749

DÖMGES F. *see* FELLOWS S.J., DÖMGES F., TÖPPER R., THILMANN A.F. & NOTH J. Changes in the short- and long-latency stretch reflex components of the triceps surae muscle during ischaemia in man. 737

DONOSO P. *see* SMITH G.L., DONOSO P., BAUER C.J. & EISNER D.A. Relationship between intracellular pH and metabolite concentrations during metabolic inhibition in isolated ferret heart. 11

DRINKHILL M.J. *see* AL-TIMMAN J.K.A., DRINKHILL M.J. & HAINSWORTH R. Reflex responses to stimulation of mechanoreceptors in the left ventricle and coronary arteries in anaesthetized dogs. 769

DRINKHILL M.J., MOORE J. & HAINSWORTH R. Afferent discharges from coronary arterial and ventricular receptors in anaesthetized dogs. 785

DROOGMANS Guy *see* NILIUS Bernd, SCHWARZ Gero & DROOGMANS Guy Modulation by histamine of an inwardly rectifying potassium channel in human endothelial cells. 359

EBIHARA Satoru & AKAIKE Norio Potassium currents operated by thyrotrophin-releasing hormone in dissociated CA1 pyramidal neurones of rat hippocampus. 689

EDGERTON V. Reggie *see* UNGUEZ Graciela A., BODINE-FOWLER Sue, ROY Roland R., PIEROTTI David J. & EDGERTON V. Reggie Evidence of incomplete neural control of motor unit properties in cat tibialis anterior after self-reinnervation. 103

EISNER D.A. *see* SMITH G.L., DONOSO P., BAUER C.J. & EISNER D.A. Relationship between intracellular pH and metabolite concentrations during metabolic inhibition in isolated ferret heart. 11

EKSTRÖM J., HELANDER H.F. & TOBIN G. Parasympathetic non-adrenergic, non-cholinergic mechanisms in reflex secretion of parotid acinar granules in conscious rats. 233

ELIASSON L. *see* ÄMMÄLÄ C., ELIASSON L., BOKVIST K., LARSSON O., ASHCROFT F.M. & RORSMAN P. Exocytosis elicited by action potentials and voltage-clamp calcium currents in individual mouse pancreatic B-cells 665

ERIKSEN Morten *see* TOSKA Karin & ERIKSEN Morten Respiration-synchronous fluctuations in stroke *volume, heart rate and arterial pressure in humans.* 501

FELLOWS S.J., DÖMGES F., TÖPPER R., THILMANN A.F. & NOTH J. Changes in the short- and long-latency stretch reflex components of the triceps surae muscle during ischaemia in man. 737

FLATMAN J.A. *see* CLAUSEN T., ANDERSEN S.L.V. & FLATMAN J.A. Na^+–K^+ pump stimulation elicits recovery of contractility in K^+-paralysed rat muscle. 521

FRACE A. Michael & HARTZELL H. Criss Opposite effects of phosphatase inhibitors on L-type calcium and delayed rectifier currents in frog cardiac myocytes. 305

FULLMER Curtis S. *see* CHARD Paul S., BLEAKMAN David, CHRISTAKOS Sylvia, FULLMER Curtis S. & MILLER Richard J. Calcium buffering properties of calbindin D_{28k} and parvalbumin in rat sensory neurones. 341

GANDEVIA S.C. *see* KILBREATH S.L. & GANDEVIA S.C. Neural and biomechanical specializations of human thumb muscles revealed by matching weights and grasping objects. 537

GIBBS C.L. *see* BARCLAY C.J., CONSTABLE J.K. & GIBBS C.L. Energetics of fast- and slow-twitch muscles of the mouse. 61

GILES W.R. *see* BOUCHARD R.A., CLARK R.B. & GILES W.R. Role of sodium–calcium exchange in activation of contraction in rat ventricle. 391

GODAUX E., METTENS P. & CHERON G. Differential effect of injections of kainic acid into the prepositus and the vestibular nuclei of the cat. 459

GRÉGOIRE G., LOIRAND G. & PACAUD P. Ca^{2+} and Sr^{2+} entry induced Ca^{2+} release from the intracellular Ca^{2+} store in smooth muscle cells of rat portal vein. 483

GUZ A. *see* DE CORT S.C., INNES J.A. & GUZ A. Effect of positive and negative step changes in intrathoracic pressure on left ventricular function in conscious man. 513

HAINSWORTH R. *see* AL-TIMMAN J.K.A., DRINKHILL M.J. & HAINSWORTH R. Reflex responses to stimulation of mechanoreceptors in the left ventricle and coronary arteries in anaesthetized dogs. 769

HAINSWORTH R. *see* DRINKHILL M.J., MOORE J. & HAINSWORTH R. Afferent discharges from coronary arterial and ventricular receptors in anaesthetized dogs. 785

HALL Sarah K. *see* ZHANG Jianping, RASMUSSON Randall L., HALL Sarah K. & LIEBERMAN Melvyn A chloride current associated with swelling of cultured chick heart cells. 801

HARTZELL H. Criss *see* FRACE A. Michael & HARTZELL H. Criss Opposite effects of phosphatase inhibitors on L-type calcium and delayed rectifier currents in frog cardiac myocytes. 305

HELANDER H.F. *see* EKSTRÖM J., HELANDER H.F. & TOBIN G. Parasympathetic non-adrenergic, non-cholinergic mechanisms in reflex secretion of parotid acinar granules in conscious rats. 233

INNES J.A. *see* DE CORT S.C., INNES J.A. & GUZ A. Effect of positive and negative step changes in intrathoracic pressure on left ventricular function in conscious man. 513

IRVING Malcolm Birefringence changes associated with isometric contraction and rapid shortening steps in frog skeletal muscle fibres. 127

ISENBERG Gerrit *see* WENDT-GALLITELLI Maria-Fiora, VOIGT Tilman & ISENBERG Gerrit Micro-heterogeneity of subsarcolemmal sodium gradients. Electron probe microanalysis in guinea-pig ventricular myocytes. 33

JACONI M. *see* VARNAI P., DEMAUREX N., JACONI M., SCHLEGEL W., LEW D.P. & KRAUSE K.H. Highly co-operative Ca^{2+} activation of intermediate-conductance K^+ channels in granulocytes from a human cell line. 373

JASSAR Balvinder S., PENNEFATHER Peter S. & SMITH Peter A. Changes in sodium and calcium channel activity following axotomy of B-cells in bullfrog sympathetic ganglion. 203

JEFFERYS John G.R. *see* TRAUB Roger D., JEFFERYS John G.R. & MILES Richard Analysis of the propagation of disinhibition-induced after-discharges along the guinea-pig hippocampal slice *in vitro*. 267

JOHNSON Jon W. *see* LANGDON Ronald B., JOHNSON Jon W. & BARRIONUEVO German Asynchrony of mossy fibre inputs and excitatory postsynaptic currents in rat hippocampus. 157

JONAS P., MAJOR G. & SAKMANN B. Quantal components of unitary EPSCs at the mossy fibre synapse on CA3 pyramidal cells of rat hippocampus. 615

KILBREATH S.L. & GANDEVIA S.C. Neural and biomechanical specializations of human thumb muscles revealed by matching weights and grasping objects. 537

KING A.E. & LOPEZ-GARCIA J.A. Excitatory amino acid receptor-mediated neurotransmission from cutaneous afferents in rat dorsal horn *in vitro*. 443

KIRBY M.S., MCCALL E., ORCHARD C.H. & BOYETT M.R. The role of Na^+–Ca^{2+} exchange in paired pulse potentiation of ferret ventricular muscle. 415

KOZLOWSKI R.Z. *see* POWELL T., NOMA A., SHIOYA T. & KOZLOWSKI R.Z. Turnover rate of the cardiac Na^+–Ca^{2+} exchanger in guinea-pig ventricular myocytes. 45

KRAUSE K.H. *see* VARNAI P., DEMAUREX N., JACONI M., SCHLEGEL W., LEW D.P. & KRAUSE K.H. Highly co-operative Ca^{2+} activation of intermediate-conductance K^+ channels in granulocytes from a human cell line. 373

LANGDON Ronald B., JOHNSON Jon W. & BARRIONUEVO German Asynchrony of mossy fibre inputs and excitatory postsynaptic currents in rat hippocampus. 157

LARSSON L. & MOSS R.L. Maximum velocity of shortening in relation to myosin isoform composition in single fibres from human skeletal muscles. 595

LARSSON O. *see* ÄMMÄLÄ C., ELIASSON L., BOKVIST K., LARSSON O., ASHCROFT F.M. & RORSMAN P. Exocytosis elicited by action potentials and voltage-clamp calcium currents in individual mouse pancreatic B-cells 665

LEEVERS Ann M., SIMON Peggy M., XI Lei & DEMPSEY Jerome A. Aponea following normocapnic mechanical ventilation in awake mammals: a demonstration of control system inertia. 749

LEW D.P. *see* VARNAI P., DEMAUREX N., JACONI M., SCHLEGEL W., LEW D.P. & KRAUSE K.H. Highly co-operative Ca^{2+} activation of intermediate-conductance K^+ channels in granulocytes from a human cell line. 373

LIEBERMAN Melvyn *see* ZHANG Jianping, RASMUSSON Randall L., HALL Sarah K. & LIEBERMAN Melvyn A chloride current associated with swelling of cultured chick heart cells. 801

LOIRAND G. *see* GRÉGOIRE G., LOIRAND G. & PACAUD P. Ca^{2+} and Sr^{2+} entry induced Ca^{2+} release from the intracellular Ca^{2+} store in smooth muscle cells of rat portal vein. 483

LOPEZ-BARNEO J. *see* TOLEDO-ARAL J., CASTELLANO A., UREÑA J. & LOPEZ-BARNEO J. Dual modulation of K^+ currents and cytosolic Ca^{2+} by the peptide TRH and its derivatives in guinea-pig septal neurones. 327

LOPEZ-GARCIA J.A. *see* KING A.E. & LOPEZ-GARCIA J.A. Excitatory amino acid receptor-mediated neurotransmission from cutaneous afferents in rat dorsal horn *in vitro*. 443

MCCALL E. *see* KIRBY M.S., MCCALL E., ORCHARD C.H. & BOYETT M.R. The role of Na^+–Ca^{2+} exchange in paired pulse potentiation of ferret ventricular muscle. 415

MAJOR G. *see* JONAS P., MAJOR G. & SAKMANN B. Quantal components of unitary EPSCs at the mossy fibre synapse on CA3 pyramidal cells of rat hippocampus. 615

MARSHALL Janice M., THOMAS Teresa & TURNER Lorraine A link between adenosine, ATP-sensitive K^+ channels, potassium and muscle vasodilatation in the rat in systemic hypoxia. 1

METTENS P. *see* GODAUX E., METTENS P. & CHERON G. Differential effect of injections of kainic acid into the prepositus and the vestibular nuclei of the cat. 459

MILES Richard *see* TRAUB Roger D., JEFFERYS John G.R. & MILES Richard Analysis of the propagation of disinhibition-induced after-discharges along the guinea-pig hippocampal slice *in vitro*. 267

MILLER Richard J. *see* CHARD Paul S., BLEAKMAN David, CHRISTAKOS Sylvia, FULLMER Curtis S. & MILLER Richard J. Calcium buffering properties of calbindin D_{28k} and parvalbumin in rat sensory neurones. 341

MINETTI A.E., ARDIGÒ L.P. & SAIBENE F. Mechanical determinants of gradient walking energetics in man. 725

MOORE J. *see* DRINKHILL M.J., MOORE J. & HAINSWORTH R. Afferent discharges from coronary arterial and ventricular receptors in anaesthetized dogs. 785

MOSS R.L. *see* LARSSON L. & MOSS R.L. Maximum velocity of shortening in relation to myosin isoform composition in single fibres from human skeletal muscles. 595

NILIUS Bernd, SCHWARZ Gero & DROOGMANS Guy Modulation by histamine of an inwardly rectifying potassium channel in human endothelial cells. 359

NOMA A. *see* POWELL T., NOMA A., SHIOYA T. & KOZLOWSKI R.Z. Turnover rate of the cardiac Na^+–Ca^{2+} exchanger in guinea-pig ventricular myocytes. 45

NOTH J. *see* FELLOWS S.J., DÖMGES F., TÖPPER R., THILMANN A.F. & NOTH J. Changes in the short- and long-latency stretch reflex components of the triceps surae muscle during ischaemia in man. 737

ORCHARD C.H. *see* KIRBY M.S., MCCALL E., ORCHARD C.H. & BOYETT M.R. The role of Na^+–Ca^{2+} exchange in paired pulse potentiation of ferret ventricular muscle. 415

OSSES Luis R. *see* SMITH Stephen J., BUCHANAN JoAnn, OSSES Luis R., CHARLTON Milton P. & AUGUSTINE George J. The spatial distribution of calcium signals in squid presynaptic terminals. 573

PACAUD P. *see* GRÉGOIRE G., LOIRAND G. & PACAUD P. Ca^{2+} and Sr^{2+} entry induced Ca^{2+} release from the intracellular Ca^{2+} store in smooth muscle cells of rat portal vein. 483

PENNEFATHER Peter S. *see* JASSAR Balvinder S., PENNEFATHER Peter S. & SMITH Peter A. Changes in sodium and calcium channel activity following axotomy of B-cells in bullfrog sympathetic ganglion. 203

PIEROTTI David J. *see* UNGUEZ Graciela A., BODINE-FOWLER Sue, ROY Roland R., PIEROTTI David J. & EDGERTON V. Reggie Evidence of incomplete neural control of motor unit properties in cat tibialis anterior after self-reinnervation. 103

POWELL T., NOMA A., SHIOYA T. & KOZLOWSKI R.Z. Turnover rate of the cardiac Na^+–Ca^{2+} exchanger in guinea-pig ventricular myocytes. 45

RASMUSSON Randall L. *see* ZHANG Jianping, RASMUSSON Randall L., HALL Sarah K. & LIEBERMAN Melvyn A chloride current associated with swelling of cultured chick heart cells. 801

ROBERTS Alan *see* SILLAR Keith T. & ROBERTS Alan Control of frequency during swimming in *Xenopus* embryos: a study on interneuronal recruitment in a spinal rhythm generator. 557

RORSMAN P. *see* ÄMMÄLÄ C., ELIASSON L., BOKVIST K., LARSSON O., ASHCROFT F.M. & RORSMAN P. Exocytosis elicited by action potentials and voltage-clamp calcium currents in individual mouse pancreatic B-cells 665

ROY Roland R. *see* UNGUEZ Graciela A., BODINE-FOWLER Sue, ROY Roland R., PIEROTTI David J. & EDGERTON V. Reggie Evidence of incomplete neural control of motor unit properties in cat tibialis anterior after self-reinnervation. 103

SAIBENE F. *see* MINETTI A.E., ARDIGÒ L.P. & SAIBENE F. Mechanical determinants of gradient walking energetics in man. 725

SAKMANN B. *see* JONAS P., MAJOR G. & SAKMANN B. Quantal components of unitary EPSCs at the mossy fibre synapse on CA3 pyramidal cells of rat hippocampus. 615

SCHLEGEL W. *see* VARNAI P., DEMAUREX N., JACONI M., SCHLEGEL W., LEW D.P. & KRAUSE K.H. Highly co-operative Ca^{2+} activation of intermediate-conductance K^+ channels in granulocytes from a human cell line. 373

SCHWARTZ E.A. *see* CAMMACK J.N. & SCHWARTZ E.A. Ions required for the electrogenic transport of GABA by horizontal cells of the catfish retina. 81

SCHWARZ Gero *see* NILIUS Bernd, SCHWARZ Gero & DROOGMANS Guy Modulation by histamine of an inwardly rectifying potassium channel in human endothelial cells. 359

SELYANKO A.A. & BROWN D.A. Effects of membrane potential and muscarine on potassium M-channel kinetics in rat sympathetic neurones. 711

SHIOYA T. *see* POWELL T., NOMA A., SHIOYA T. & KOZLOWSKI R.Z. Turnover rate of the cardiac Na^+–Ca^{2+} exchanger in guinea-pig ventricular myocytes. 45

SILLAR Keith T. & ROBERTS Alan Control of frequency during swimming in *Xenopus* embryos: a study on interneuronal recruitment in a spinal rhythm generator. 557

SIMON Peggy M. *see* LEEVERS Ann M., SIMON Peggy M., XI Lei & DEMPSEY Jerome A. Aponea following normocapnic mechanical ventilation in awake mammals: a demonstration of control system inertia. 749

SMITH G.L., DONOSO P., BAUER C.J. & EISNER D.A. Relationship between intracellular pH and metabolite concentrations during metabolic inhibition in isolated ferret heart. 11

SMITH Peter A. *see* JASSAR Balvinder S., PENNEFATHER Peter S. & SMITH Peter A. Changes in sodium and calcium channel activity following axotomy of B-cells in bullfrog sympathetic ganglion. 203

SMITH Stephen J., BUCHANAN JoAnn, OSSES Luis R., CHARLTON Milton P. & AUGUSTINE George J. The spatial distribution of calcium signals in squid presynaptic terminals. 573

SPIRES Sherrill *see* ARREOLA Jorge, SPIRES Sherrill & BEGENISICH Ted Na^+ channels in cardiac and neuronal cells derived from a mouse embryonal carcinoma cell line. 289

TAGGART Michael J. & WRAY Susan Occurrence of intracellular pH transients during spontaneous contractions in rat uterine smooth muscle. 23

THILMANN A.F. *see* FELLOWS S.J., DÖMGES F., TÖPPER R., THILMANN A.F. & NOTH J. Changes in the short- and long-latency stretch reflex components of the triceps surae muscle during ischaemia in man. 737

THOMAS Teresa *see* MARSHALL Janice M., THOMAS Teresa & TURNER Lorraine A link between adenosine, ATP-sensitive K^+ channels, potassium and muscle vasodilatation in the rat in systemic hypoxia. 1

TOBIN G. *see* EKSTRÖM J., HELANDER H.F. & TOBIN G. Parasympathetic non-adrenergic, non-cholinergic mechanisms in reflex secretion of parotid acinar granules in conscious rats. 233

TOLEDO-ARAL J., CASTELLANO A., UREÑA J. & LÓPEZ-BARNEO J. Dual modulation of K^+ currents and cytosolic Ca^{2+} by the peptide TRH and its derivatives in guinea-pig septal neurones. 327

TÖPPER R. *see* FELLOWS S.J., DÖMGES F., TÖPPER R., THILMANN A.F. & NOTH J. Changes in the short- and long-latency stretch reflex components of the triceps surae muscle during ischaemia in man. 737

TOSKA Karin & ERIKSEN Morten Respiration-synchronous fluctuations in stroke volume, heart rate and arterial pressure in humans. 501

TRAUB Roger D., JEFFERYS John G.R. & MILES Richard Analysis of the propagation of disinhibition-induced after-discharges along the guinea-pig hippocampal slice *in vitro*. 267

TURNER Lorraine *see* MARSHALL Janice M., THOMAS Teresa & TURNER Lorraine A link between adenosine, ATP-sensitive K^+ channels, potassium and muscle vasodilatation in the rat in systemic hypoxia. 1

UNGUEZ Graciela A., BODINE-FOWLER Sue, ROY Roland R., PIEROTTI David J. & EDGERTON V. Reggie Evidence of incomplete neural control of motor unit properties in cat tibialis anterior after self-reinnervation. 103

UREÑA J. *see* TOLEDO-ARAL J., CASTELLANO A., UREÑA J. & LÓPEZ-BARNEO J. Dual modulation of K^+ currents and cytosolic Ca^{2+} by the peptide TRH and its derivatives in guinea-pig septal neurones. 327

VARNAI P., DEMAUREX N., JACONI M., SCHLEGEL W., LEW D.P. & KRAUSE K.H. Highly co-operative Ca^{2+} activation of intermediate-conductance K^+ channels in granulocytes from a human cell line. 373

VOIGT Tilman *see* WENDT-GALLITELLI Maria-Fiora, VOIGT Tilman & ISENBERG Gerrit Micro-heterogeneity of subsarcolemmal sodium gradients. Electron probe microanalysis in guinea-pig ventricular myocytes. 33

WENDT-GALLITELLI Maria-Fiora, VOIGT Tilman & ISENBERG Gerrit Microheterogeneity of subsarcolemmal sodium gradients. Electron probe microanalysis in guinea-pig ventricular myocytes. 33

WRAY Susan *see* TAGGART Michael J. & WRAY Susan Occurrence of intracellular pH transients during spontaneous contractions in rat uterine smooth muscle. 23

XI Lei *see* LEEVERS Ann M., SIMON Peggy M., XI Lei & DEMPSEY Jerome A. Aponea following normocapnic mechanical ventilation in awake mammals: a demonstration of control system inertia. 749

ZHANG Jianping, RASMUSSON Randall L., HALL Sarah K. & LIEBERMAN Melvyn A chloride current associated with swelling of cultured chick heart cells. 801